

Project No. 1251-100

Crude Oil Tank Farms Project, Agrood Area 30 (Module-1)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

Sr.	Pre-Commissioning and Commissioning Dossier Index	Applicable (Yes/No)
1	Mechanical Completion Certificate (MCC)	
2	Ready for Startup Certificate (RFSU)	
3	System Punch Lists	
4	System Limits Marked Up P&ID	
5	System Index	
6	Piping Pre-Commissioning	
	6.01) Piping Test Packs	
	6.02) Piping Pre-commissioning Check Lists	
7	Piping Commissioning	
	7.01) Service Test, GLT, CLT and N2 Purging Certificates	
	7.02) Piping Commissioning Check Lists	
Sr.	Pre-Commissioning and Commissioning Dossier Index	Applicable (Yes/No)
8	Mechanical Pre-Commissioning	
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	8.02) Equipment Drawings	
	8.03) Equipment Datasheets	
	8.04) Boxing-up Certificates	

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	12.03) Motor Datasheets	
	12.04) Electrical Cables Schedule	
	12.05) Electrical Cables Laying Certificates	
	12.06) Electrical Cables Testing Certificates	
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	12.10) Electrical Pre-Commissioning Check Lists	
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Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightining protection)

### 1-Mechanical Completion Certificate (MCC)



## SYSTEM MECHANICAL COMPLETION CERTIFICATE (MCC)

**PROJECT TITLE** : CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

**PROJECT No** : 01251-100

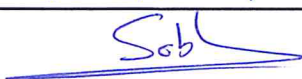


**SYSTEM NAME** : Gate House Electrical System (Lighting, Small power, Earthing and Lightning protection)

**SYSTEM ID** : 030-EL-012

**THIS IS TO CERTIFY THAT:**

- THE ABOVE SYSTEM HAS BEEN FABRICATED, ERECTED, INSTALLED AND TESTED TO THE REQUIREMENTS OF THE CONTRACT DRAWINGS, SPECIFICATIONS, THE APPLICABLE CODES AND STANDARDS.
- ALL PRE-COMMISSIONING RELEVANT ACTIVITIES, TESTS, INSPECTIONS AND CHECKS HAVE BEEN CARRIED OUT FOR THIS SYSTEM AND FOUND ACCEPTABLE.
- Q/C DOCUMENTATION OF THE ABOVE SYSTEM HAS BEEN AUDITED BY THE CUSTOMER SITE QUALITY CONTROL AND FOUND COMPLETED.
- ALL PUNCH LIST ITEMS CATEGORY (A) IN THIS SUBSYSTEM WERE CLEARED.
- THIS SYTEM IS MECHANICALLY COMPLETED ON THE DATE AND READY FOR COMMISSIONING (RFC) WITH THE FOLLOWING EXCEPTIONS.

**EXCEPTIONS :**

COMPANY	PETROJET	ENPPI	PMC
NAME	Sobhy Selem	Mohamed Abbasi	
TITLE	ESI Qc Engineer	Construction Mgr.	
SIGNATURE			
DATE	10/11/2021		



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 2- Ready for Startup Certificate (RFSU)



## READY FOR START UP CERTIFICATE

PROJECT TITLE : EGPC CRUDE OIL TANK FARMS PROJECT (AGROOD-30)

PROJECT No. : 1251-100

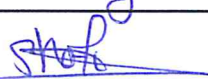
SYSTEM /AREA /PLANT : Gate House Electrical System  
(Lighting, Small Power, Earthing and Lightening Protection)

SYSTEM /AREA /PLANT No. : 030-EL-012

### THIS IS TO CERTIFY THAT:

- THE MENTIONED SYSTEM /AREA /PLANT IS READY FOR START UP WHERE ALL MECHANICAL WORKS, PRECOMMISSIONING AND COMMISSIONING ACTIVITIES HAVE BEEN SUCCESSFULLY COMPLETED.
- MECHANICAL COMPLETION CERTIFICATE(S) FOR THE MENTIONED SYSTEM / AREA / PLANT HAVE BEEN SIGNED.
- ISSUANCE OF THIS READY FOR START UP CERTIFICATE(S) SHALL NOT RELIEVE CONTRACTOR(S) FROM THEIR OBLIGATIONS TO COMPLETE THE REMAINING SYSTEMS NOR FROM THEIR WARRANTY OBLIGATIONS AND OTHER PROVISIONS OF THE CONTRACT.
- THE FOLLOWING EXCEPTIONS AGREED TO BE CLEARED AFTER START UP AND WILL NOT PREVENT START UP ACTIVITIES.

### EXCEPTIONS :

COMPANY	ENPPI	PPC
NAME	Ahmed El Shafie	Mohamed ebrahim
TITLE	Commissioning Mgn	ele. engineer
SIGNATURE		M. ebrahim
DATE	4.11.21	7.11.2021



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
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### 3- System Punch Lists





Enppi

## PUNCH LIST



PROJECT TITLE : CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

PROJECT NUMBER : 01251-100

DISCIPLINE: process

SYSTEM NAME: Gate House Electrical System (Lighting, small power, Earthing and Lightining protection)

SYSTEM ID: 030-EL-012

SUB-SYSTEM NAME:

SUB-SYSTEM ID:

NO	DESCRIPTION	CAT	ACTION BY	DISP	CLEARANCE APPROVED BY	
1	(p1-030-GH-Lpdp-1) to be Connected and tested	A	PTJ/ Enppi	Elec		
2	(p2-030-GH-Lpdp-1) to be Connected and tested	A	PTJ/ Enppi	Elec		

CAT: CATEGORY(A,B,C), ACTION BY: (ENPPI, CONST. CONTRACTOR, SUPPLIER.....), DISP: DISCIPLINE(PIP, MECH, ELECT, INST.....)

COMPANY	PTJ	ENPPI	PMC
NAME	Sobhy Seleem		
SIGN.			
DATE	3/11/2021		



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
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#### 4- System Limits Marked Up P&ID



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Sytem (Lighting, small power, Earthing and Lightning protection)

## 5- System Index



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightining protection)

## 6- Piping Pre-Commissioning





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 6.01- Piping Test Packs



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
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## 6.02- Piping Pre-commissioning Check Lists



Project: 01251-100  
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System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 7- Piping Commissioning



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
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## 7.01- Service Test, GLT, CLT and N2 Purging Certificates





Project: 01251-100  
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System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightining protection)

## 7.02- Piping Commissioning Check Lists



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 8- Mechanical pre-Commissioning



Project: 01251-100  
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System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 8.01- System Mechanical Index



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 8.02- Equipment Drawings





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

### 8.03- Equipment Datasheets



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
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#### 8.04- Boxing-up Certificates



Project: 01251-100  
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System ID	030-EL-012
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## 8.05- Grouting Certificates



Project: 01251-100  
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## 8.06- Pre-Alignment Certificates



Project: 01251-100  
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## 8.07- Mechanical Pre-Commissioning Checklists



Project: 01251-100  
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System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 9- Mechanical Commissioning





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 9.01- Final Alignment Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 9.02- Motor Solo Run Certificates



Project: 01251-100  
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### 9.03- Mechanical Run Test (MRT) Certificates



Project: 01251-100  
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## 9.04- Mechanical Commissioning Checklists



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 9.05- Mechanical Supplier Check Lists & Reports



Project: 01251-100  
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System ID	030-EL-012
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## 10- Instrumentation Pre-Commissioning





Project: 01251-100  
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System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightining protection)

## 10.01- System Instrument Index



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
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## 10.02- Instrument Data Sheets



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

### 10.03- Instrument Cable Schedule



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 10.04- System Instrumentation Wiring Diagram



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
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## 10.05- Hook-up Drawing (Mechanical & Pneumatic)



Project: 01251-100  
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System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 10.06- Instruments Cables Schedule





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 10.07- Instruments Cables Laying Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 10.08- Instruments Cables Termination Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 10.09- Instruments Cables Testing Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 10.10- Instruments Calibration Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 10.11- Instrument Loop Checks Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightining protection)

## 10.12- Instrumentation Pre-Commissioning Check Lists





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightining protection)

### 10.13- Instrumentation Supplier Check Lists & Reports



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 11- Instrumentation Commissioning



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 11.01) Instrumentation Function Test Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 11.02- Instrumentation Supplier Check Lists & Reports



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 12- Electrical Pre-Commissioning



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 12.01- System Electrical Index

Gate House Electrical System (Lighting, small power, Ear	Electrical	Gate House Electrical Systems	Gate House Electrical Systems	Checklist
Gate House Electrical System (Lighting, small power, Ear	Electrical	P1-030-GH-LPDP-1	LV Cable	Checklist
Gate House Electrical System (Lighting, small power, Ear	Electrical	P2-030-GH-LPDP-1	LV Cable	Checklist



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 12.02- Electrical Drawings



Area \* 30 marked-up for P&G

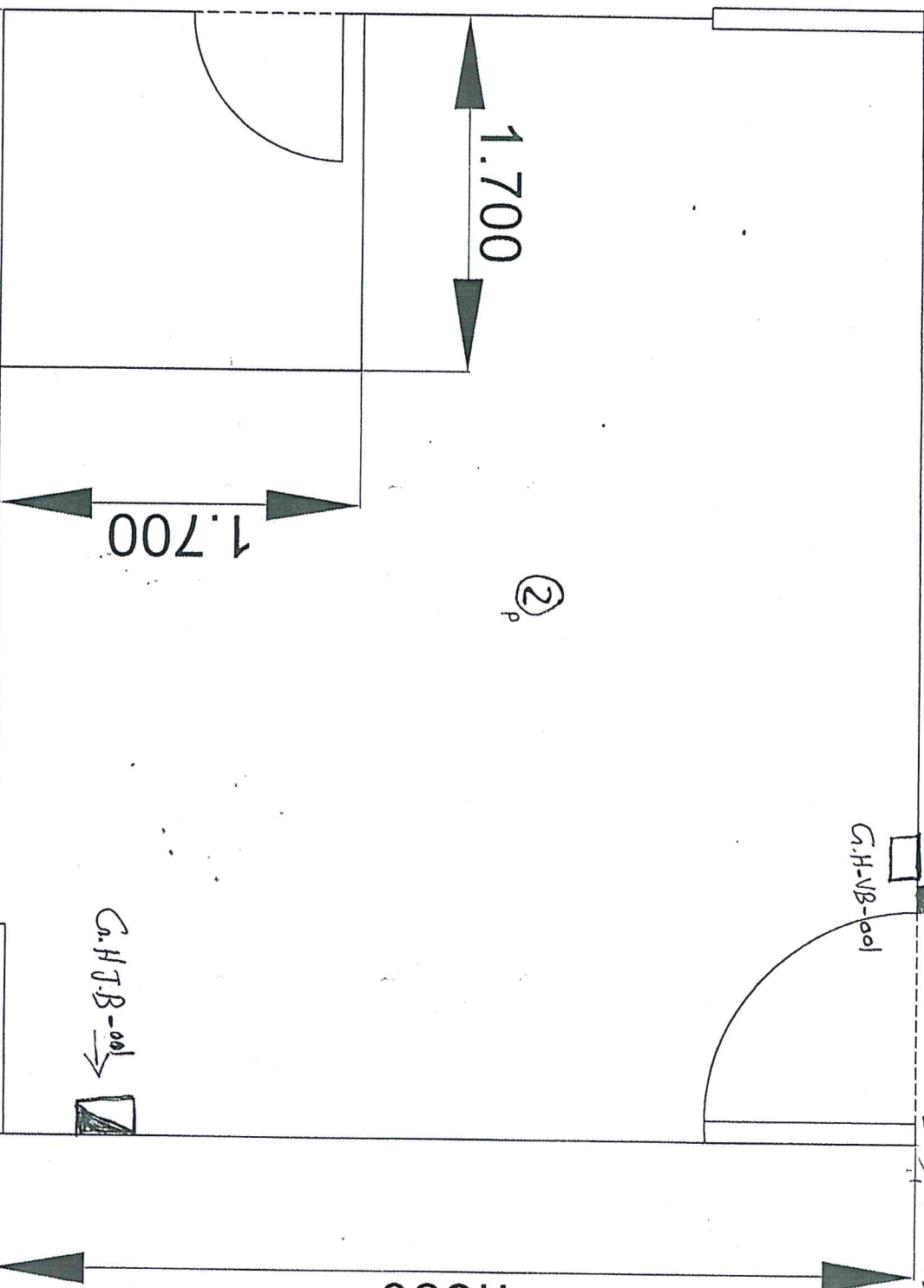
هذا هو المكان الذي يجب أن يكون فيه  
المبنى الجديد، ونقير في المكان الذي  
هو الآن

Engr. J. J. J.  
J. J. J.

P&G  
M. Omar  
J. J. J.

4.350

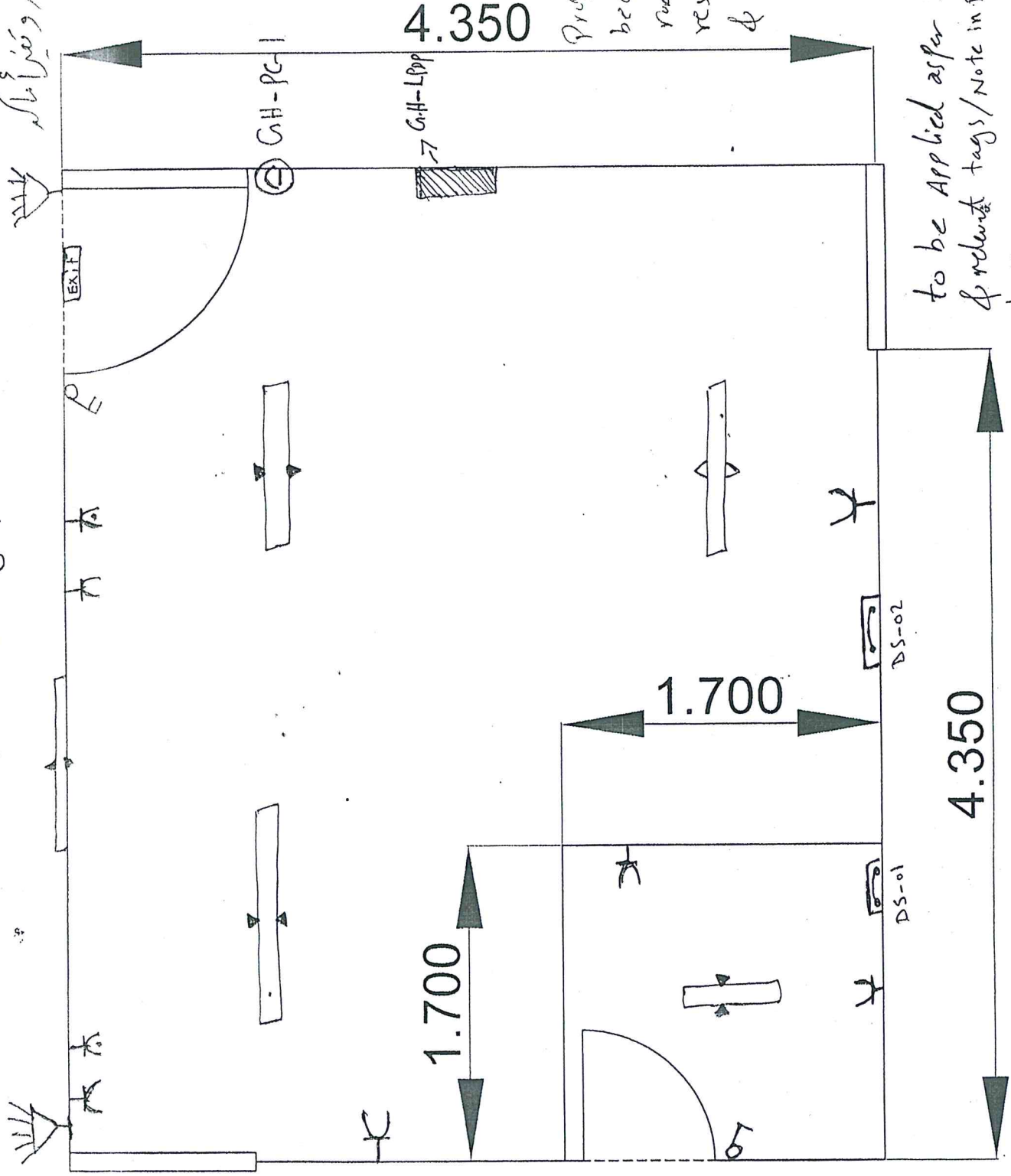
Proposed location could be changed as per existing room site condition  
with respect to all legends & notes mention herein Engr. Drawing related  
to P&G only.



4.350

Area \* 30 W. Redup for Lighting & Small Power

المكانة، الجدران، السقف  
والأثاث والموارد  
التي



Proposed location could  
be changed as per existing  
room site condition with  
respect to enppi legends  
& notes mention in the D

to be Applied as per SLD  
& relevant tags/Note in DWG 030-ELP-002  
& 030-EP5-006

P.P.C Approved  
Eng. A. Al-Hadi  
7/10/2021



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
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### 12.03- Motor Datasheets



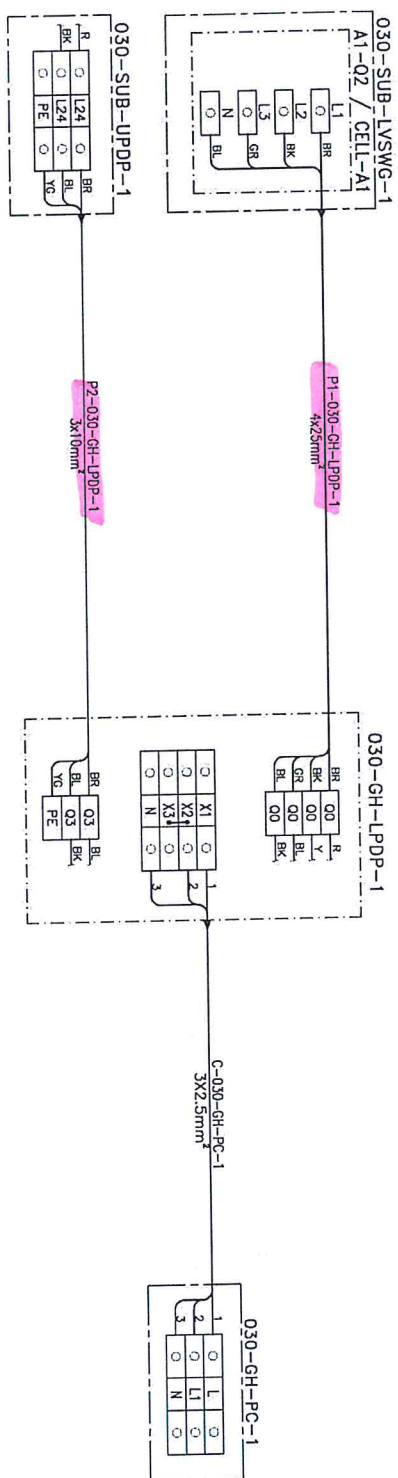
Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightining protection)

## 12.04- Electrical Cables Schedule

Cable Mark	GL1	FROM	TO	GL2	CABLE Service	Service Voltage	KW	Size
P1-030-GH-1-PDP-1	WP	030-SUB-LVSWG-1 (A1-Q2)	030-GH-1-PDP-1 (INC.1)	EX	3PH POWER FEEDER	400VAC	8	4x25
P2-030-GH-1-PDP-1	WP	030-SUB-UTDP-1 (L24)	030-GH-1-PDP-1 (INC.2)	EX	1PH POWER FEEDER	230VAC	1.5	3x25



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EGPC  
THE EGYPTIAN GENERAL PETROLEUM CO.  
EGPC

EGPC CRUDE OIL TANK FARM  
AGROD AREA (MODULE-1)  
ELECTRICAL INTERCONNECTION & WIRING DIAGRAM  
GATE HOUSE LIGHTING/POWER DISTRIBUTION PANEL  
(030-GH-LPDP-1)

التمديدات الكهربائية والكابلات  
EGPC

SCALE: NONE | DOCUMENT NUMBER: 01251-100-030-EWI-001 | SHEET: 01 OF 02

AS PER 2/2



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 12.05- Electrical Cables Laying Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 12.06- Electrical Cables Testing Certificates





Enppi

EGPC CRUDE OIL TANK FARM



INSPECTION AND TEST REPORT FOR

CABLE INSULATION RESISTANCE TEST

SYSTEM NO.:

INSPECTION REPORT NUMBER

REF: 127

INSPECTION DATE & TIME

DOCUMENT NO.  
ITR-EL-0006A

DISCIPLINE  
ELECTRICAL

SHEET NO

INSTRUMENT TYPE:

SERIAL:

SERVICE VOLTAGE:  
220 v

TEST VOLTAGE:  
1kv

AREA / PACKAGE:

N O	Item/Tag NO.	CABLE SIZE	Continuity Test	PHASE TO PHASE "M.Ohm"			PHASE TO NEUTRAL "M.Ohm"			PHASES & NEUTRAL TO ARMOR "M.Ohm"			RESULT	
				BR-BK	BR-GR	BK-GR	BR-B	BK-B	GR-B	BR-ARM	BK-ARM	GR-ARM	B-ARM	Pass FAIL
1	031-GATE-01	12*2*1.5	✓											
2	030-GATE-01	12*2*1.5												
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														

Remarks :-

Reference :-

NAME :		PETROJET		ENPPI		PMC	
SIGNATURE							
DATE							



Enppi

PETROJET

EGPC CRUDE OIL TANK FARM



INSPECTION AND TEST REPORT FOR

### CABLE INSULATION RESISTANCE TEST

INSPECTION REPORT NUMBER

RFI-

INSTRUMENT TYPE:

SERIAL:

INSPECTION DATE & TIME

SYSTEM NO.:

SHEET NO

DOCUMENT No.  
JTR-EL-0006A

DISCIPLINE  
ELECTRICAL

SERVICE VOLTAGE:  
220 v

TEST VOLTAGE:  
1kv

AREA / PACKAGE:

TEST VOLTAGE: 220 V			TEST VOLTAGE: 1kv			AREA / PACKAGE:									
N O	Item/Tag NO.	CABLE SIZE	Continuity Test	PHASE TO PHASE "M.Ohm"			PHASE TO NEUTRAL "M.Ohm"			PHASES & NEUTRAL TO ARMOR "M.Ohm"			RESULT		
				BR-BK	BR-GR	BK-GR	BR-B	BK-B	GR-B	BR-ARM	BK-ARM	GR-ARM	B-ARM	Pass	FAIL
1	P1-030-GH-L-PDP-1	4*25	✓												
2	P2-030-GH-L-PDP-1	3*25													
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															

Remarks :-

Reference :-

PETROJET

ENPPI

PMC

NAME :

SIGNATURE

DATE

*[Signature]*



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 12.07- Electrical Cables Termination Certificates



**Enppi****EGPC CRUDE OIL TANK FARM**

Owner :

Egyptian General Petroleum Corporation (EGPC)

Project No: 01251-100-030  
:01251-100-031

Contractor

CONSORTIUM (ENPPI / PETROJET)

Document No: ITR-QC-0001  
Revision No. : 00**REQUEST FOR INSPECTION****CABLE TERMINATION AND SPLICING**

ACTIVITY :

NOTIFICATION NO. :

PTJ-ELEC-RFI-

275

DISCIPLINE :

E&amp;I

DATE :

10/28/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	CABLE TERMINATION AND SPLICING	MODULE 1	28-Oct-21				
1	P1-030-GH-LPDP-1						
2	P2-030-GH-LPDP-1						
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NOTE:

All cables Tapes must be installed.

Inspection result : A - Approved B - Reject C - Approved with Comment

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE			
DATE			

ITR-QC-0001



## EGPC CRUDE OIL TANK FARM



AND TEST REPORT FOR

## TERMINATION AND SPLICING

SYSTEM NO.:

ON REPORT NUMBER

INSPECTION DATE &amp; TIME

ITR NUMBER

ITR-EL-0009

DISPLINE

ELEC

SHEET NO

1 OF 1

m/Tag NO.

refer to RFI-275

Type :-

Core:

Size:

NO.	Description of check	RESULT		
		ACCEPT	REJECT	N/A.
1	Check cable glands are correct type and size as per cable schedule.	✓		
2	Check there are no damages to cores, termination chamber layout is satisfactory, core identification is correct, crimped and pins satisfactory.			
3	Check cable tag is done correctly.			
4	Test and confirm conductor, phase continuity.			
5	Check insulation resistance test (megger) is completed *I	✓		
6	Check Hi-pot test is completed, only for MV/HV cables **			
7	Connect all cores at both ends and confirm all connections are correct as per termination diagram.			
8	Confirm spare cores, screens are earthed and conform to design drawings/specifications			
9	Check enclosure cover is installed, no damages and no bolts are missing			
10	Calibration test certificate of testing equipment to be checked.			

Remarks :

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE			
DATE			

ITR-EL-00



ITR-QC-0001

**Enppi****EGPC CRUDE OIL TANK FARM  
AGROOD AREA (MODULE 1 & 2)****LIGHTING SYSTEM**

INSPECTION AND TEST REPORT FOR

**LIGHTING FIXTURE INSTALLATION CHECK LIST**

INSPECTION REPORT NUMBER

RFL\_ 264

INSPECTION DATE &amp; TIME

ITR NUMBER

ITR-EL-0003

DISCIPLINE

ELECTRICAL

SHEET NO

TAG/ CIRCUIT No :

PANEL :

AREA/PACKGE :

SYSTEM NO.:

LAMP TYPE: ☐ FLOURESCENT☐ HP SODIUM☒ LEDFIXTURE TYPE: ☐ GROUND STANCHION☒ PLATFORM STANCHION☐ BRACKET TYPE☒ CEILING MOUNTED☐ STREET LIGHTING☐ FLOODLIGHT TOWER☐ FENCE LIGHTING☒ GUARD LIGHTING

ITEM / TAG NO.

TYPE

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No damage has been found to fixtures/junction box.	✓		
2	Correct type / size / identification as per drawings.	✓		
3	Identification / name plate attached correctly.			✓
4	Lighting pole and support as per drawings.			✓
5	Welding (if required) and touch up.			✓
6	Anchor bolting / Bolt tightening.	✓		
7	Mounting height / orientation / direction / vertical alignment as per drawings.	✓		
8	Check cable termination, connection, and cable marker.	✓		
9	Assembling compartments properly installed.	✓		
10	Conduit /conduit filled by compound.			✓
11	Earthing and bonding properly installed.			✓
12	Lamp test	✓		✓

REMARKS:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE			
DATE			

ITR-EL-0003



**Enppi****EGPC CRUDE OIL TANK FARM  
AGROOD AREA (MODULE 1 & 2)****LIGHTING SYSTEM**

INSPECTION AND TEST REPORT FOR

**POWER OUTLET INSTALLATION CHECK LIST**

INSPECTION REPORT NUMBER

RFI 201 264

INSPECTION DATE &amp; TIME

ITR NUMBER

ITR-EL-0004

DISCIPLINE

ELECTRICAL

SHEET NO

TAG :

CIRCUIT No :

PANEL :

AREA/PACKGE :

SYSTEM NO.:

TYPE:

☒ WELDING RECEPTACLE☐ CONVIENCE OUTLET

ITEM / TAG NO.

TYPE

NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No damage has been found to devices/switches.	✓		
2	Correct type / size / identification as per drawings.	✓		
3	Identification / name plate attached correctly.			—
4	Welding (if required) and touch up.			✓
5	Anchor bolting / Bolt tightening.	✓		
6	Mounting height / orientation / direction as per drawings.	✓		
7	Check cable termination, connection, and cable marker.	✓		
8	Assembling compartments properly installed.	✓		
9	Conduit /conduit filled by compound.			—
10	Earthing and bonding properly installed.			✓



REMARKS:

REFERENCE DOCUMENTS:

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE			
DATE		® Islam Sherif	

ITR-EL-0004



 <b>Enppi</b> <small>PETROJET</small>	<b>EGPC CRUDE OIL TANK FARM AGROOD AREA (MODULE 1 &amp; 2)</b>	 <b>EGPC</b>
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### LIGHTING SYSTEM

INSPECTION AND TEST REPORT FOR				
<b>LIGHTING / SMALL POWER PANEL INSTALLATION</b>				
INSPECTION REPORT NUMBER <div style="text-align: center; font-size: 1.2em;">264</div>	INSPECTION DATE & TIME	ITR NUMBER <div style="text-align: center;">ITR-EL-0005</div>	DISPLINE <div style="text-align: center;">ELECTRICAL</div>	SHEET NO

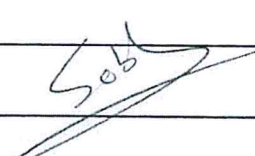
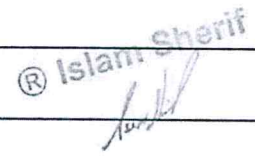
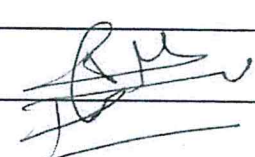
JOB DESCRIPTION	AREA DESCRIPTION
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ITEM / TAG NO.	TYPE
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NO.	INSPECTION	RESULT		
		ACCEPT	REJECT	N/A.
1	No damage has been found to equipment / component.	✓		
2	Correct type / size as per drawings.	✓		
3	Equipment foundation / supports are completed.	✓		
4	Correct level / alignment / orientation as per drawings.	✓		
5	Identification / name plate - correct and properly attached.	✓		
6	Welding (if required) and touch up.	✓		
7	Anchor bolting / Bolt correctly tightened.	✓		
8	Door locks operation / opening.	✓		
9	Check all busbar connections.	✓		N/A
10	Check cable termination, connection, and cable marker.	✓		
11	Check on missing or loose part of lighting accessory properly.	✓		
12	All compartments to be cleaned internally and externally.	✓		
13	Earthing and bonding properly installed.	✓		

REMARKS:
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REFERENCE DOCUMENTS:
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	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE			
DATE			

ITR-EL-0005

**Enppi**

EGPC CRUDE OIL TANK FARM



Owner : Egyptian General Petroleum Corporation (EGPC)

Project No: 01251-100-030  
:01251-100-031

Contractor CONSORTIUM (ENPPI / PETROJET)

Document No: ITR-QC-0001  
Revision No. : 00**REQUEST FOR INSPECTION**

ACTIVITY : CABLE TERMINATION AND SPLICING

NOTIFICATION NO. : PTJ-INS-RFI- 127 DISCIPLINE : E&amp;I

DATE : 11/3/2021

NO.	DESCRIPTION	LOCATION	DATE / TIME	INSPECTION			REMARKS
				PETROJET	ENPPI	PMC	
	CABLE TERMINATION AND SPLICING	MODULE 2	3-Nov-21				
1	031-GATE-01						
2	030-GATE-01						
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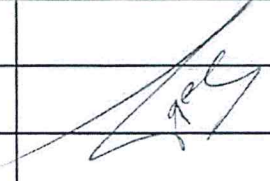
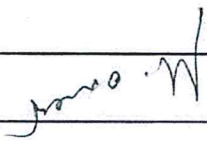
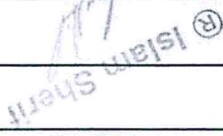
**NOTE:**

Inspection result : A - Approved B - Reject C - Approved with Comment

	PETROJET	ENPPI	PMC
NAME :			
SIGNATURE			
DATE			

ITR-QC-0001



				<b>EGPC CRUDE OIL TANK FARM</b>	
<b>INSPECTION AND TEST REPORT FOR</b>					
<b>CABLE TERMINATION AND SPLICING</b>		<b>INSPECTION REPORT NUMBER</b> 197			
<b>SYSTEM NO.:</b>		<b>INSPECTION DATE &amp; TIME</b>		<b>ITR NUMBER</b> ITR-EL-0009	
<b>SHEET NO</b> 1 OF 1		<b>DISCIPLINE</b> ELEC		<b>Item/Tag NO.</b>	
<b>Type :-</b>		<b>Core:</b>		<b>Size:</b>	
<b>NO.</b>		<b>Description of check</b>			
<b>1</b>		Check cable glands are correct type and size as per cable schedule.			
<b>2</b>		Check there are no damages to cores, termination chamber layout is satisfactory, core identification is correct, crimped and pins			
<b>3</b>		Check cable tag is done correctly.			
<b>4</b>		Test and confirm conductor, phase continuity.			
<b>5</b>		Check insulation resistance test (megger) is completed *1			
<b>6</b>		Check Hi-pot test is completed, only for MV/HV cables *11			
<b>7</b>		Connect all cores at both ends and confirm all connections are correct as per termination diagram.			
<b>8</b>		Confirm spare cores, screens are earthed and conform to design drawings/specifications			
<b>9</b>		Check enclosure cover is installed, no damages and no bolts are missing			
<b>10</b>		Calibration test certificate of testing equipment to be checked.			
<b>Remarks :</b>					
<b>NAME :</b>		<b>PETROJET</b>		<b>ENPPI</b>	
<b>SIGNATURE</b>					
<b>DATE</b>				<b>ITR-EL-0009</b>	



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 12.08- FAT Reports & Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 12.09- SAT Reports & Certificates



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightining protection)

## 12.10- Electrical Pre-Commissioning Check Lists

## PRE-COMMISSIONING CHECK LIST SOCKETS EL-24 A

**PROJECT TITLE** : EDPCCrude Oil Tank Farms Piject, Agrood Area 30 (Module-01)

**PROJECT NUMBER** : 1251-100

**DISCIPLINE** : Electrical

**SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightining

**SYSTEM ID** : 030-EL-012

**SUB-SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightining

**SUB-SYSTEM ID** : 030-EL-012

**ITEM TAG No.** : Gate House Electrical Systems

**AREA** : 30

**REF. DWGs/DOCs** :

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
1	Construction punch list to be checked.	✓	
2	Check to ensure that all the sockets fittings meet the requirement of Hazardous area classification.	✓	
3	Check location and fixing method of sockets in accordance with approved drawings.	✓	
4	Inspect sockets for mechanical damage.	✓	
5	Check that sockets are correctly located and not obstructed by other equipments.	✓	
6	Check equipment fixings and mountings are secure.	✓	
7	Check cable circuit connections to sockets against the approved drawing.	✓	
8	Check circuit numbering and correct identification label.	✓	
9	Check sockets inside & outside cleaning.	✓	
10	Check sockets for sealing & tightening.	✓	
11	Earthing connections to the earthing grid to be checked.	✓	

**REMARKS AND OBSERVATIONS :**

All cables tags must be installed.

**OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.**

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE			
DATE			



## PRE-COMMISSIONING CHECK LIST SOCKETS EL-24 A

**PROJECT TITLE** : EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)

**PROJECT NUMBER** : 1251-100

**DISCIPLINE** : Electrical

**SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightining

**SYSTEM ID** : 030-EL-012

**SUB-SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightining

**SUB-SYSTEM ID** : 030-EL-012

**ITEM TAG No.** : Gate House Electrical Systems

**AREA** : 30

**REF. DWGs/DOCs** :

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Plugs of socket outlets fit properly and mechanical interlocks operate correctly.	✓	
13	Junction boxes are well sealed and holes that are not used to be plugged with plugs suiting hazardous area classification.	✓	
14	Contractor marked up drawings is available.	✓	

**REMARKS AND OBSERVATIONS :**

**OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.**

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE			
DATE			



## PRE-COMMISSIONING CHECK LIST LIGHTING AND SMALL POWER MATERIAL EL-23 A

**PROJECT TITLE** : EDPCCrude Oil Tank Farms Pijet, Agrood Area 30 (Module-01)

**PROJECT NUMBER** : 1251-100

**DISCIPLINE** : Electrical

**SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightining

**SYSTEM ID** : 030-EL-012

**SUB-SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightining

**SUB-SYSTEM ID** : 030-EL-012

**ITEM TAG No.** : Gate House Electrical Systems

**AREA** : 30

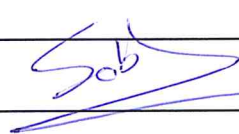


**REF. DWGs/DOCs** :

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
1	Construction punch list to be checked.	✓	
2	Check to ensure that all the fittings meet the requirement of Hazardous area classification.	✓	
3	Check location and fixing method of light fittings in accordance with approved drawings.	✓	
4	Inspect light fittings for mechanical damage.	✓	
5	Check that lighting equipments are correctly located and not obstructed by other equipments.	✓	
6	Check equipment fixings and mountings are secure.	✓	
7	Check equipment fixings and mountings are secure.	✓	
8	Check circuit numbering and correct identification label.	✓	
9	Earthing connections to the earthing grid to be checked.	✓	
10	Check lighting fixture inside & outside cleaning.	✓	
11	Check lighting fixture/junction box for sealing & tightening.	✓	

### REMARKS AND OBSERVATIONS :

All cables trays must be installed.

**OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.**

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE			
DATE			

## PRE-COMMISSIONING CHECK LIST LIGHTING AND SMALL POWER MATERIAL EL-23 A

**PROJECT TITLE** : EDPCCrude Oil Tank Farms Pijrect, Agrood Area 30 (Module-01)

**PROJECT NUMBER** : 1251-100

**DISCIPLINE** : Electrical

**SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightining

**SYSTEM ID** : 030-EL-012

**SUB-SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightining

**SUB-SYSTEM ID** : 030-EL-012

**ITEM TAG No.** : Gate House Electrical Systems

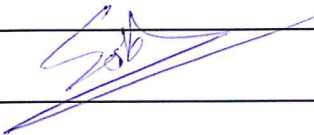
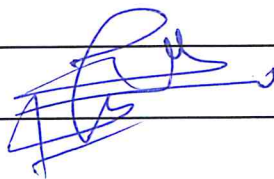
**AREA** : 30

**REF. DWGs/DOCs** :

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Junction boxes are well sealed and holes that are not used to be plugged with plugs suiting hazardous area classification.	✓	
13	Connection of photo-cells to be checked as per approved documents.	✓	
14	Check the lighting fixtures are installed in such a way that the maintenance become easily & safely.	✓	
15	Refer to small power distribution panel checks.	✓	
16	Contractor marked up drawings is available.	✓	

**REMARKS AND OBSERVATIONS :**

**OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.**

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE			
DATE			

## PRE-COMMISSIONING CHECK LIST MEDIUM VOLTAGE CABLES EL-31 A

**PROJECT TITLE** : EDPCCrude Oil Tank Farms Piject, Agrood Area 30 (Module-01)

**PROJECT NUMBER** : 1251-100

**DISCIPLINE** : Electrical

**SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightining

**SYSTEM ID** : 030-EL-012

**SUB-SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightining

**SUB-SYSTEM ID** : 030-EL-012

**ITEM TAG No.** : P1-030-GH-LPDP-1

**AREA** : 30


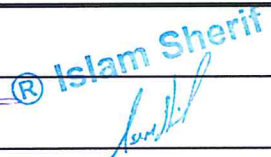

**REF. DWGs/DOCs** :

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

### REMARKS AND OBSERVATIONS :

All cables tags must be installed

OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE			
DATE			



## PRE-COMMISSIONING CHECK LIST MEDIUM VOLTAGE CABLES EL-31 A

**PROJECT TITLE** : EDPCCrude Oil Tank Farms Piject, Agrood Area 30 (Module-01)

**PROJECT NUMBER** : 1251-100

**DISCIPLINE** : Electrical

**SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightining

**SYSTEM ID** : 030-EL-012

**SUB-SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightining

**SUB-SYSTEM ID** : 030-EL-012

**ITEM TAG No.** : P1-030-GH-LPDP-1

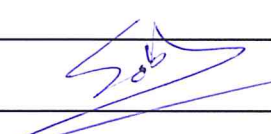
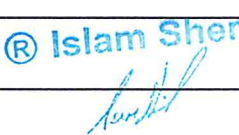
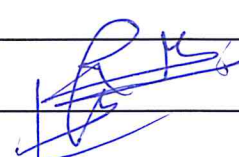
**AREA** : 30

**REF. DWGs/DOCs** :

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	✓	
18	Calibration test certificate of testing equipment to be checked.	✓	

**REMARKS AND OBSERVATIONS :**

**OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.**

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		 <b>® Islam Sherif</b>	
DATE			

## PRE-COMMISSIONING CHECK LIST MEDIUM VOLTAGE CABLES EL-31 A

### INSULATION TEST

EL-31 A

CABLE VOLTAGE LEVEL	D.C TEST VOLTAGE	MINIMUM INSULATION RESISTANCE (M.OHMS).
3.3kV	2500V	200
6.6kV & Above	5000V	200

TABLE [I]

NOTES:

## PRE-COMMISSIONING CHECK LIST MEDIUM VOLTAGE CABLES EL-31 A

**PROJECT TITLE** : EDPCCrude Oil Tank Farms Piject, Agrood Area 30 (Module-01)

**PROJECT NUMBER** : 1251-100

**DISCIPLINE** : Electrical

**SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightning)

**SYSTEM ID** : 030-EL-012

**SUB-SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightning)

**SUB-SYSTEM ID** : 030-EL-012

**ITEM TAG No.** : P2-030-GH-LPDP-1

**AREA** : 30




**REF. DWGs/DOCs** :

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, termination and joints of cables are correctly executed.	✓	
7	Inspect cables for jacket damage.	✓	
8	Ensure that the correct size and type of crimping lugs have been used.	✓	
9	Check that the bending radius of cables is not less than the minimum established.	✓	
10	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
11	Tie wraps to be used for cable and wires fixation.	✓	

**REMARKS AND OBSERVATIONS :**

All cables tags must be installed

**OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.**

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE			
DATE			



## PRE-COMMISSIONING CHECK LIST MEDIUM VOLTAGE CABLES EL-31 A

**PROJECT TITLE** : EDPCCrude Oil Tank Farms Prieject, Agrood Area 30 (Module-01)

**PROJECT NUMBER** : 1251-100

**DISCIPLINE** : Electrical

**SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightining

**SYSTEM ID** : 030-EL-012

**SUB-SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightining

**SUB-SYSTEM ID** : 030-EL-012

**ITEM TAG No.** : P2-030-GH-LPDP-1

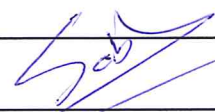
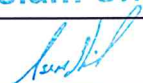
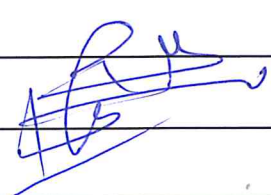
**AREA** : 30

**REF. DWGs/DOCs** :

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Trench markers to be checked w.r.t approved documents.	✓	
13	Check cable glands for tightness and check the correct type of gland has been used for the size and type of installed cables.	✓	
14	Inspect cable laid in trenches, segregation and protection.	✓	
15	Cables to be tested (continuity/insulation resistance).(*)	✓	
16	Equipment test report and inspection certificate to be-checked.	✓	
17	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	✓	
18	Calibration test certificate of testing equipment to be checked.		

**REMARKS AND OBSERVATIONS :**

**OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.**

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE		® Islam Sherif 	
DATE			



**PRE-COMMISSIONING CHECK LIST  
MEDIUM VOLTAGE CABLES  
EL-31 A**

**INSULATION TEST**

**EL-31 A**

<b>CABLE VOLTAGE LEVEL</b>	<b>D.C TEST VOLTAGE</b>	<b>MINIMUM INSULATION RESISTANCE (M.OHMS).</b>
3.3kV	2500V	200
6.6kV & Above	5000V	200

**TABLE [I]**

**NOTES:**



## PRE-COMMISSIONING CHECK LIST LOW VOLTAGE CABLES EL-30 A

**PROJECT TITLE** : EDPCCrude Oil Tank Farms Priject, Agrood Area 30 (Module-01)

**PROJECT NUMBER** : 1251-100

**DISCIPLINE** : Electrical

**SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightining

**SYSTEM ID** : 030-EL-012

**SUB-SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightining

**SUB-SYSTEM ID** : 030-EL-012

**ITEM TAG No.** : Gate House Electrical Systems

**AREA** : 30

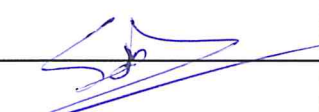
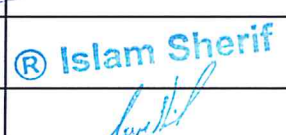
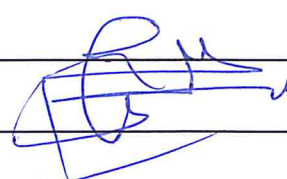
**REF. DWGs/DOCs** :

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
1	Construction punch list to be checked.	✓	
2	Check cables are correctly fixed to trays and supports.	✓	
3	Check cables through walls or ceilings are correctly sealed.	✓	
4	Check that all cables (power/ control) are installed in accordance with cable lists and approved documents.	✓	
5	Check identification tags of all conductors and wires.	✓	
6	Check connection, tightness, termination and joints of cables are correctly executed.	✓	
7	Check where conductors have been terminated using crimped connections; ensure the correct size and type of crimping lugs.	✓	
8	Check that the bending radius of cables is not less than the minimum established.	✓	
9	Cable markers to be installed before covering buried cables or cables in cable trays.	✓	
10	Tie wraps to be used for cable and wires fixation.	✓	
11	Cable connections shall be torque tested.	✓	

**REMARKS AND OBSERVATIONS :**

All cables tags must be installed.

**OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.**

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE			
DATE			

## PRE-COMMISSIONING CHECK LIST LOW VOLTAGE CABLES EL-30 A

**PROJECT TITLE** : EDPCCrude Oil Tank Farms Prieject, Agrood Area 30 (Module-01)

**PROJECT NUMBER** : 1251-100

**DISCIPLINE** : Electrical

**SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightining

**SYSTEM ID** : 030-EL-012

**SUB-SYSTEM NAME** : Gate House Electrical System (Lighting, small power, Earthing and Lightining

**SUB-SYSTEM ID** : 030-EL-012

**ITEM TAG No.** : Gate House Electrical Systems

**AREA** : 30

**REF. DWGs/DOCs** :

No.	DESCRIPTION	RESULT	PL
		OK/NA/PL	ITEM No.
12	Check that buried cables are correctly covered and protected.	✓	
13	Trench markers to be checked w.r.t approved documents.	✓	
14	Check cable glands for tightness & check the correct type of gland has been used for the size and type of installed cables.	✓	
15	Inspect cable laid in trenches, segregation and protection.	✓	
16	Cables to be tested (continuity/insulation resistance). (*)	✓	
17	Equipment test report and inspection certificate to be-checked.	✓	
18	Check availability of vendor documents, including commissioning and start-up instructions. (If Any)	✓	
19	Calibration test certificate of testing equipment to be checked.	✓	

**REMARKS AND OBSERVATIONS :**

(\*) Refer to table (III).

**OK: NO OBJECTION, NA: NOT APPLICABLE, PL: PUNCH LIST.**

COMPANY	CONST. CONTRACTOR	ENPPI	CUSTOMER
NAME			
SIGNATURE			
DATE			



**PRE-COMMISSIONING CHECK LIST**  
**LOW VOLTAGE CABLES**  
**EL-30 A**

**INSULATION TEST**  
**LOW VOLTAGE CABLES**

<b>CABLE VOLTAGE LEVEL</b>	<b>D.C TEST VOLTAGE</b>	<b>MINIMUM INSULATION RESISTANCE (M.OHMS).</b>
1000V	1000V	200

**TABLE [III]**

**NOTES:**

Manufacture's test voltage & minimum values for insulation resistance should be referenced.



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 12.11- Electrical Supplier Check Lists & Reports



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

### 13- Electrical Commissioning



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightining protection)

### 13.01- Electrical -Commissioning Check Lists



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

### 13.02- Electrical Supplier Check Lists & Reports



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightining protection)

## 14- Red Marked-up Drawings





Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightining protection)

14.01- P&ID



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

## 14.02- Instrumentation Drawings



Project: 01251-100  
CRUDE OIL TANK FARM PROJECT (AGROOD AREA)



System ID	030-EL-012
System Description	Gate House Electrical Syatem (Lighting, small power, Earthing and Lightning protection)

### 14.03- Electrical Drawings